#### Practitioner's Docket No. MPI00-437P1RM

#### IN THE CLAIMS:

Please cancel claims 1-24 and add new claims 25-42. This listing of claims will replace all prior versions, and listings, of claims in the application:

### STATUS OF THE CLAIMS:

# 1-24. (Canceled)

- 25. (New): An isolated nucleic acid molecule selected from the group consisting of:
- a) a nucleic acid molecule comprising a nucleotide sequence which is at least 95% identical to the entire nucleotide sequence of SEQ ID NO:1, wherein the nucleic acid molecule encodes a polypeptide having fucosyltransferase activity, or a full complement thereof; and
- b) a nucleic acid molecule which encodes a polypeptide comprising an amino acid sequence which is at least 95% identical to the entire amino acid sequence of SEQ ID NO:2, wherein the polypeptide has fucosyltransferase activity.
- 26. (New): An isolated nucleic acid molecule selected from the group consisting of:
- a) a nucleic acid molecule comprising the nucleic acid sequence of SEQ ID NO:1 or SEQ ID NO:3, or a full complement thereof; and
- b) a nucleic acid molecule which encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:2, or a full complement thereof.
- 27. (New): An isolated nucleic acid molecule selected from the group consisting of:
- b) a nucleic acid molecule consisting of the nucleic acid sequence of SEQ ID NO:1 or SEQ ID NO:3, or a full complement thereof; and
- d) a nucleic acid molecule which encodes a polypeptide consisting of the amino acid sequence of SEQ ID NO:2, or a full complement thereof.
- 28. (New): The nucleic acid molecule of claim 25, further comprising vector nucleic acid sequences.
- 29. (New): The nucleic acid molecule of claim 26, further comprising vector nucleic acid sequences.
- 30. (New): The nucleic acid molecule of claim 27, further comprising vector nucleic acid sequences.

## Practitioner's Docket No. MPI00-437P1RM

- 31. (New): The nucleic acid molecule of claim 25, further comprising nucleic acid sequences encoding a heterologous polypeptide.
- 32. (New): The nucleic acid molecule of claim 26, further comprising nucleic acid sequences encoding a heterologous polypeptide.
- 33. (New): The nucleic acid molecule of claim 27, further comprising nucleic acid sequences encoding a heterologous polypeptide.
- 34. (New): An isolated host cell which contains the nucleic acid molecule of claim 28.
- 35. (New): The host cell of claim 34 which is a mammalian host cell.
- 36. (New): An isolated host cell which contains the nucleic acid molecule of claim 29.
- 37. (New): The host cell of claim 36 which is a mammalian host cell.
- 38. (New): An isolated host cell which contains the nucleic acid molecule of claim 30.
- 39. (New): The host cell of claim 38 which is a mammalian host cell.
- 40. (New): A method for producing a polypeptide, comprising culturing the host cell of claim 34 under conditions in which the polypeptide encoded by the nucleic acid molecule is expressed.
- 41. (New): A method for producing a polypeptide, comprising culturing the host cell of claim 36 under conditions in which the polypeptide encoded by the nucleic acid molecule is expressed.
- 42. (New): A method for producing a polypeptide, comprising culturing the host cell of claim 38 under conditions in which the polypeptide encoded by the nucleic acid molecule is expressed.

1